

COMPANY FILE

PIC/D-86/59  
27 April 1959

MEMORANDUM FOR:

SRS/DPD-DD/P

SUBJECT:

PIC Research and Development Report

25X1A

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1. Enclosure (1) is a letter from [REDACTED] on a nonrigid, high altitude, extendable bellows, long focal length camera.

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2. A tentative proposal for Basic Investigations in Electroluminescence has been received from [REDACTED]. A sentence from the proposal follows: "Certain military device applications to radiation detectors, countermeasure devices and microwave black bodies are not discussed here because of possible classification." The proposal points out several times that basic research must be accomplished before any devices might be forthcoming.

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3. [REDACTED] has sent a description, photos and tentative proposal for a catadioptric lens. The prototype lens-mirror system is 3.85 inches in diameter, 8 inches long, weighs 2.5 pounds and has an effective focal length of 50 inches. The lens is 1/7th the length and 1/10th to 1/20th the weight of the average 50 inch telephoto lens. The field covered is 1.5°, and the lens operates at F 14. It can be supplied in apertures up to 12 inches in diameter and focal lengths over 200 inches. The lens has a resolving capability of better than 200 1/mm.

ARTHUR C. LUNDAHL

Director

Photographic Intelligence Center

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Enclosure

[REDACTED] letter  
dated 4 October 1958

DWL:RLM

Declass Review by NIMA/DOD